RUDRAPRASAD CONSULTANTS
Structural Engineers, Architects &
Project Management Consultants

To,

Date: 25-01-2020

ASSISTANT EXECUTIVE ENGINEER
BYATARAYANAPURA SUB DIVISION
BBMP
BANGALORE

Dear Sir,

Sub: M/s. Rudraprasad Consultants Services for the work of Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Ref: 1. Work Order No: BBMP/EE/BTP/WO/151/2019-20

2. Job code: 006-20-000009

We are here with forwarding to Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th "C" Main Road, 3rd "Y" Block, Rajajinagara, Bangalore-560010. First and Part bill duly verified and certified that the Work is satisfactory and for a Gross Value of RS. 46,58,868. /-(RS. Forty Six Lakhs fifty eight thousand eight hundred and sixty eight Only)

Thanking you,

Yours faithfully,

For Rudraprasad Consultants

RUDRAPRASAD CONSULTANTS BANGALORE

R. KARTHIK RECHAN B.E, M.S (U.S.A)
PRINCIPAL CONSULTANT
RUDRAPRASAD CONSULTANTS

#3, 7th Main Malleswaram, Bangalore – 560003
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Providing new borewwlls and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Name of Client : Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Contractor/ Agency: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Total Cost : Rs :1,74,63,213/- (Excluding GST)

Date Of Inspection : 25-01-20

Status Of Bill : First & Part Bill

In the Presence of : a) Assistant Engineer ,Ward no-6 ,Byatarayanapura Sub Division, BBMP, Bangalore.
b) R. Karthik Rechan, Partner, M/S RUDRAPRASAD CONSULTANTS, BANGALORE

PMC COMPLIANCE REPORT		
Sl. No.	**Description of work**	**Comments/Observations**
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80	Work done upto the Billed Quantity and the Quality is satisfactory
2	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2	Work done upto the Billed Quantity and the Quality is satisfactory

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3	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)	Work done upto the Billed Quantity and the Quality is satisfactory
4	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2	Work done upto the Billed Quantity and the Quality is satisfactory
5	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)	Work done upto the Billed Quantity and the Quality is satisfactory
13	Improvements to roads and drains at Palanahalli Thota, Kempegowda Badavane, Manjunatha Layout, Vinayakanagara, Anandnagara and Surrounding area in Ward no.05	Work done upto the Billed Quantity and the Quality is satisfactory

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14	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction (P.48, I. 9.4) PRED.SR 2012-13	Work done upto the Billed Quantity and the Quality is satisfactory
15	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) P. 46 / I. 9.1 PRED SR 2012-13	Work done upto the Billed Quantity and the Quality is satisfactory
	0 to 50 m	Work done upto the Billed Quantity and the Quality is satisfactory
	50 to 100 m	Work done upto the Billed Quantity and the Quality is satisfactory
	100 to 150 m	Work done upto the Billed Quantity and the Quality is satisfactory
	150 to 200 m	Work done upto the Billed Quantity and the Quality is satisfactory

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	200 to 250 m	Work done upto the Billed Quantity and the Quality is satisfactory
	250 to 300 m	Work done upto the Billed Quantity and the Quality is satisfactory
16	Supply of ISI mark 175 mm nominal bore, Plain end steel casing pipe - grade of Steel Fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by baseic open hearth electric or basic oxygen process in random length of 5 to 7 mts both ends threaded confirming tio IS 554/1985, one end fixied with socket confirming to IS 4270:2001 and the other end with screwed pipes ISI Marking weighing 25.10Kg/mtr (Inclusive of all taxes and durties) Prices include Collar-medium duty P. iii, I No. 84 PRED SR 2012-13	Work done upto the Billed Quantity and the Quality is satisfactory
17	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 & confirming to GTP of GROUP-A. P. No. 12 / I No. 2.10.4(1) 3C x 4 Sqm mm KPWD Electrical SR 2014-15	Work done upto the Billed Quantity and the Quality is satisfactory
18	Labour charges for erection as new /repaired submercible pumpset allong with GI pipe (32/50mm) cable (new submercible pumpset if required will be supplied by the department free of cost and released pumpset shoud be handed over to department including transportation (Each lenth =6.00) Page No. 558, Items No-3 BWSSB SR for 2014-15)	Work done upto the Billed Quantity and the Quality is satisfactory

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19	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., P No. 44 / I No. 6.6.6 KPWD Electrical SR 2014-15	Work done upto the Billed Quantity and the Quality is satisfactory
20	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A P No. 55/ I No. 7.4.4 4 core 16 Sqmm KPWD Electrical SR 2014-15	Work done upto the Billed Quantity and the Quality is satisfactory
21	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. P No. 61 / I No. 7.8.1 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15	Work done upto the Billed Quantity and the Quality is satisfactory
22	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) P No. 61 / I. No. 7.9.3 KPWD Electrical SR 2014-15	Work done upto the Billed Quantity and the Quality is satisfactory
23	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV P. No. 62 / I No. 7.12.1 KPWD Electrical SR 2014-15	Work done upto the Billed Quantity and the Quality is satisfactory
24	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., P. No. 62 / I.No. 7.13.2 KPWD Electrical SR 2014-15	Work done upto the Billed Quantity and the Quality is satisfactory

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-24

25	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit … The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia, (P No. 55, I No. 7.1) KPWD Electrical SR 2014-15	Work done upto the Billed Quantity and the Quality is satisfactory
26	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.P No. 44 / I No. 6.7.2 KPWD Electrical SR 2014-15	Work done upto the Billed Quantity and the Quality is satisfactory
27	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32Amps Group A TPN P No. 47 / I No.6.16.5 KPWD SR 2014-15	Work done upto the Billed Quantity and the Quality is satisfactory
28	Fabricating supplying and mounting MS box made out … SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete P.No. 57, I. No. 6.41.2 KPWD Electrical SR 2014-15	Work done upto the Billed Quantity and the Quality is satisfactory

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ಸಹಾಯಕ ಅಭಿಯಂತರರು ಅಭಿಯಂತರರು
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29	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strructure manhole. Page No. 01/ Item No.1.2.2 / PRED SR 2012-13 Hard Soil	Work done upto the Billed Quantity and the Quality is satisfactory
30	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., Page No.15 item No.3.4.2 b PRED SR 2012-13.	Work done upto the Billed Quantity and the Quality is satisfactory
31	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs Page No. 3 / Item No. 1.6 / PRED SR 2012-13	Work done upto the Billed Quantity and the Quality is satisfactory
32	Code No.: 3008 Providing 250mm dia PVC Pipe 10kg/cm Page No. XXXV, Sl No. 892 PWD SR 2018-19	Work done upto the Billed Quantity and the Quality is satisfactory
33	Providing and fixing Borewell Cap and Clamp Set Page No. XLVII, SI No. 17 PWD SR 2018-19	Work done upto the Billed Quantity and the Quality is satisfactory

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34	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 12.50 HP 25 stage. ATALANTA< SUGNA< CRI, KIRLOSKAR and other Equivalent Pumps PWD SR 2018-19 P. XLI Item No. 35 including of all taxes	Work done upto the Billed Quantity and the Quality is satisfactory
35	Providing GI Pipe 50 mm 'B' Class Page No. XLVII, Sl No. 1 PWD SR 2018-19	Work done upto the Billed Quantity and the Quality is satisfactory
36	Providing Collar 50 mm Page No. XLVII, Sl No. 1 PWD SR 2018-19	Work done upto the Billed Quantity and the Quality is satisfactory
37	Providing and fixing 50mm nominal bore gun metal non-return Page No. XLVIII, Sl No. 16, PWD SR 2018-19	Work done upto the Billed Quantity and the Quality is satisfactory
38	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete.- for 50mm dia: Page No. 97, Item No. 13.81.3 PWD SR 2018-19	Work done upto the Billed Quantity and the Quality is satisfactory
39	Providing outdoor panel upto 15.00 HP (PWD SR for 2018-19 Page No. XLVII Sl No. 12)	Work done upto the Billed Quantity and the Quality is satisfactory

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40	KSRB13-6.3-7 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 65mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3. P. No.94 / I. No. 13.38 PWD SR 2018-19	Work done upto the Billed Quantity and the Quality is satisfactory

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